

Abstract

The invention concerns a method of operating a wind park and also a wind park as such.

Wind power installations were initially always set up as singular units and it is only in recent years that wind power installations have frequently been installed in wind parks, this being due also to administrative and building regulations. In that respect a wind park, in its smallest entity, is an arrangement of at least two wind power installations but frequently markedly more. By way of example mention may be made of the wind park at Holtriem (East Frisia in Germany), where more than 50 wind power installations are set up in an array. It is to be expected that the number and also the installed power output of the wind power installations will also rise greatly in future years. In most cases the wind potential is at its greatest in regions of the power supply networks with a low short-circuit capacity and a low level of population density. It is precisely there that the technical connection limits are rapidly attained by the wind power installations, with the consequence that no further wind power installations can then be set up at such locations.

A method of operating a wind park comprising at least two wind power installations, wherein the power output from the wind power installations is limited in respect of its magnitude to a maximum possible network feed value which is lower than the maximum possible value of the power to be outputted (rated power output) and the maximum possible feed value is determined by the receiving capacitance (line capacitance) of the network into which the energy is fed and/or by the power capacitance of the energy transmission unit or the transformer, by means of which the energy produced by the wind power installation is fed into the network.

(Figure 1)

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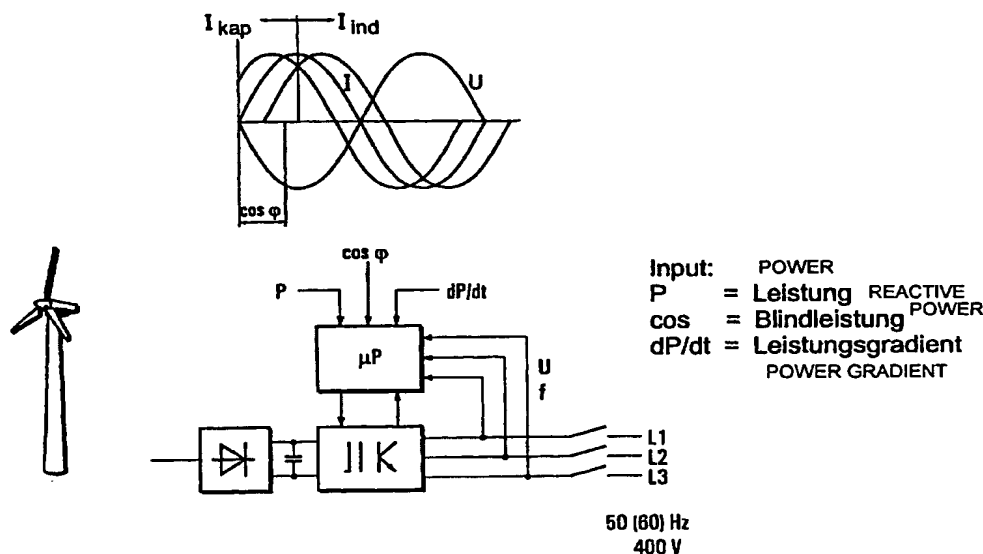
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(54) Title: METHOD FOR OPERATING A WIND FARM

(54) Bezeichnung: VERFAHREN ZUM BETRIEB EINES WINDPARKS



(57) Abstract: The invention relates to a method for operating a wind farm and to a wind farm. Said wind farm consists of at least two wind turbines, the power provided by these wind energy turbines being limited in amount to a maximum possible input to the network which is less than the maximum possible value of power to be provided (nominal power). The maximum possible value to be input is determined by the receiving capacity (power capacity) of the network into which the energy is input and/or by the power capacity of the energy transmission unit or the transformer by which means the energy generated by the wind turbine is input into the network.

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